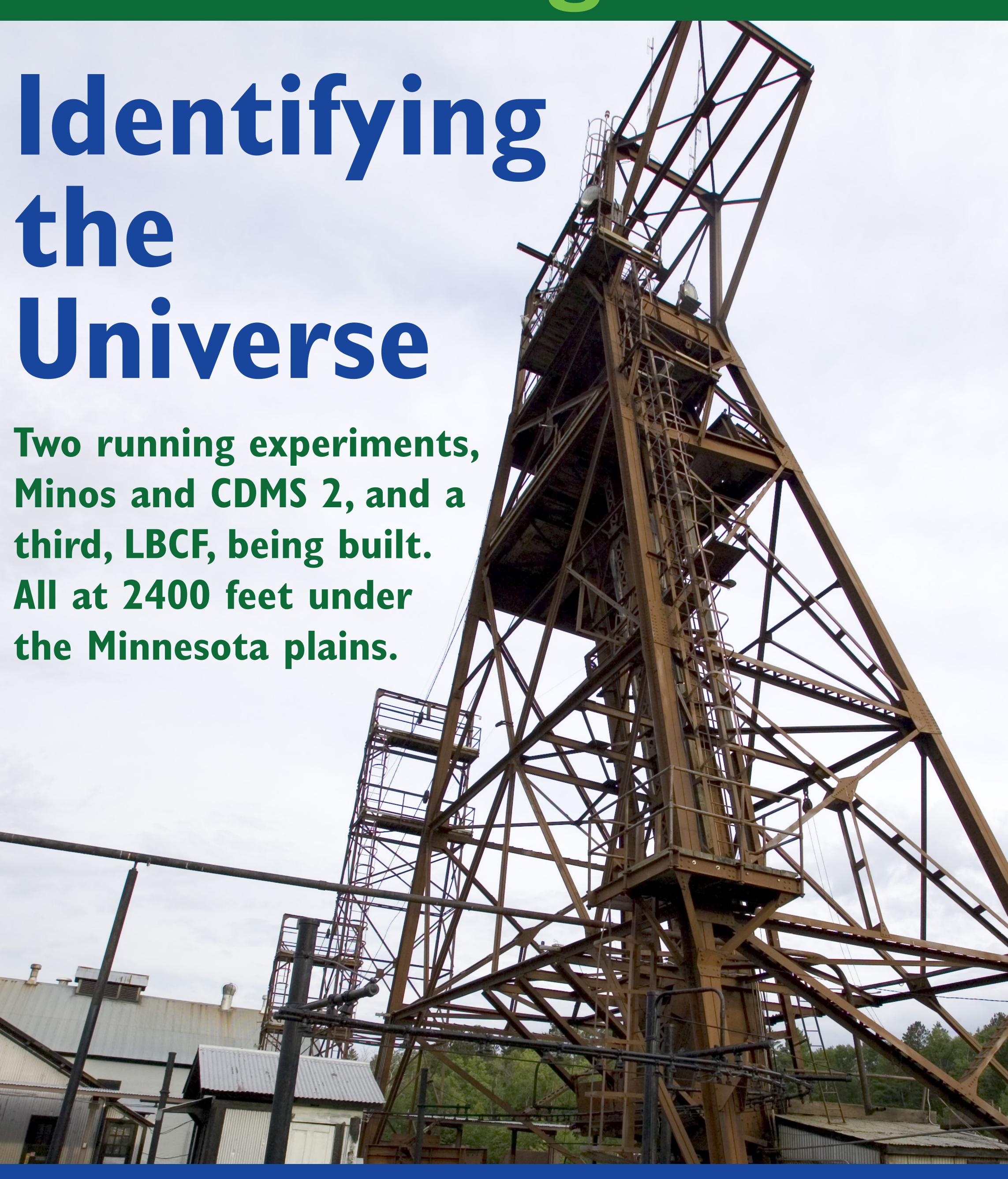
CRYOGENIC DARK MATTER SEARCH (CDMS)







# CRYOGENIC DARK MATTER SEARCH (CDMS) Accelerating Science

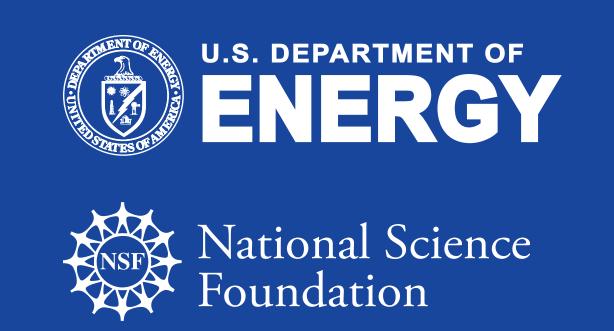
Amongst the various experiments that Erik has worked on, I have always seen them as sculptural in their form. When I went with him to the CDMS experiment in Soudan, Minnesota, my thought was to write music inspired by the place and by the work that the scientists are doing. My time at the bottom of the mine changed my ideas and put me on a path to find a way to make the subatomic world more accessible to people. My thoughts were to combine an aural sensation with a visual sensation so that the average person could relate to a decidely abstract notion that the subatomic world presents.

My dear friend Bill Remmers was very helpful in making this "instrument" possible. Also, the support and enthusiasm I received from the scientists at CDMS was also inspiring. My hope is that by seeing and hearing a representation of actual events, one can then have a sense of their reality.

I am a stone mason and stone carver.

I am also am a musician and composer.

And I have always been inspired by the work my brother, Erik, does in physics.



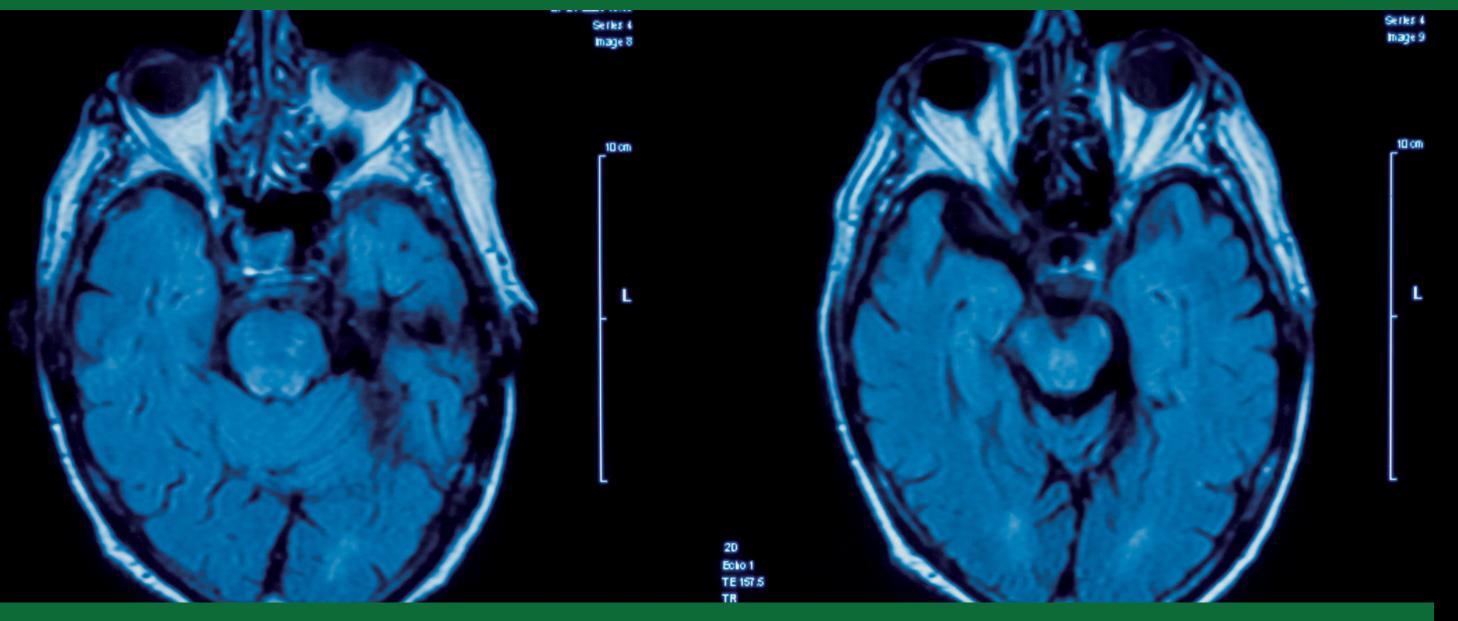
#### CRYOGENIC DARK MATTER SEARCH (CDMS)



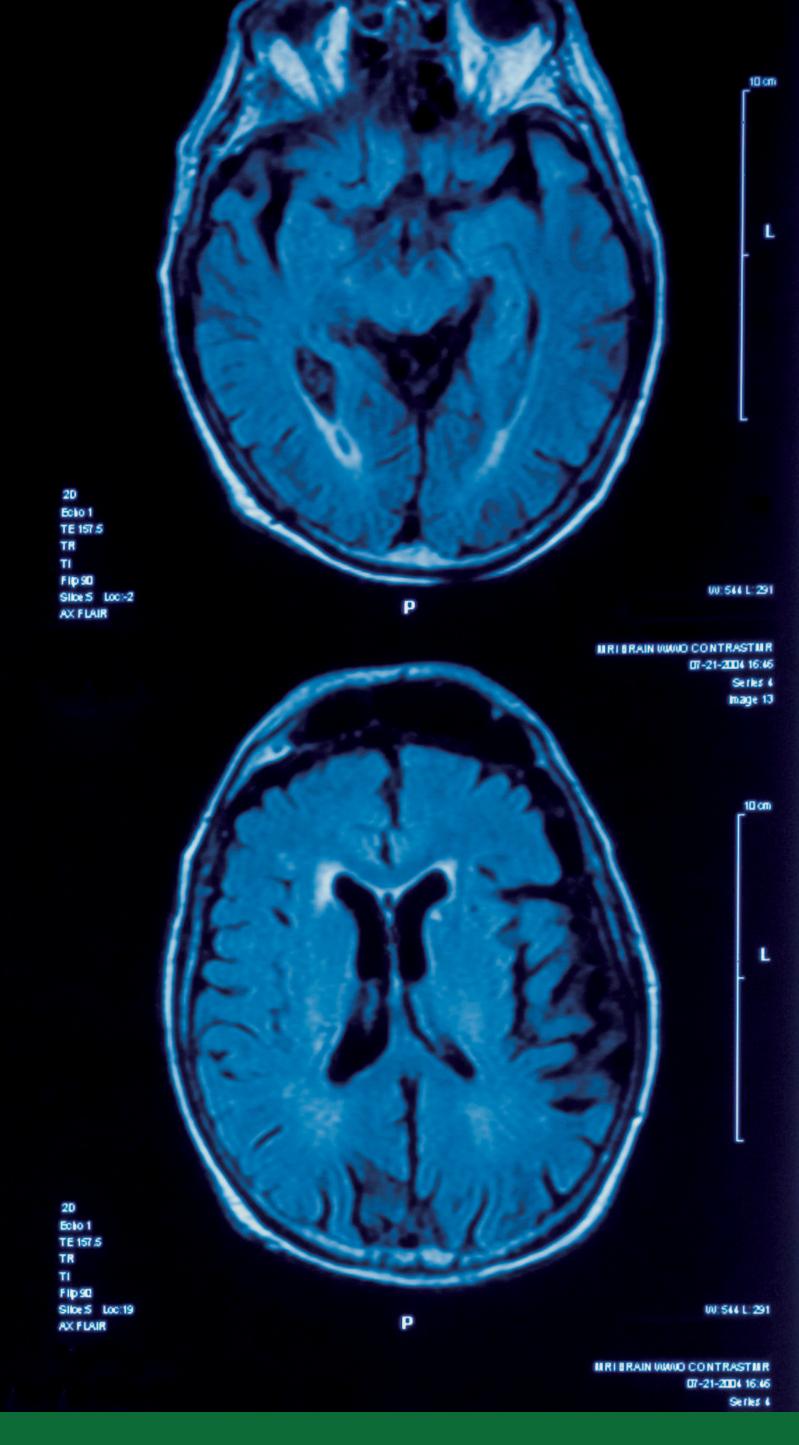


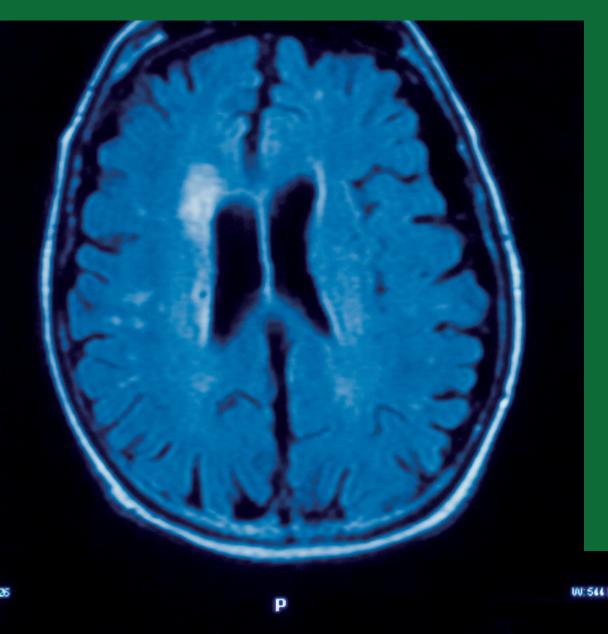


# COMPUTATIONAL PHYSICS FOR ACCELERATORS Accelerating Science



# What are accelerators good for?





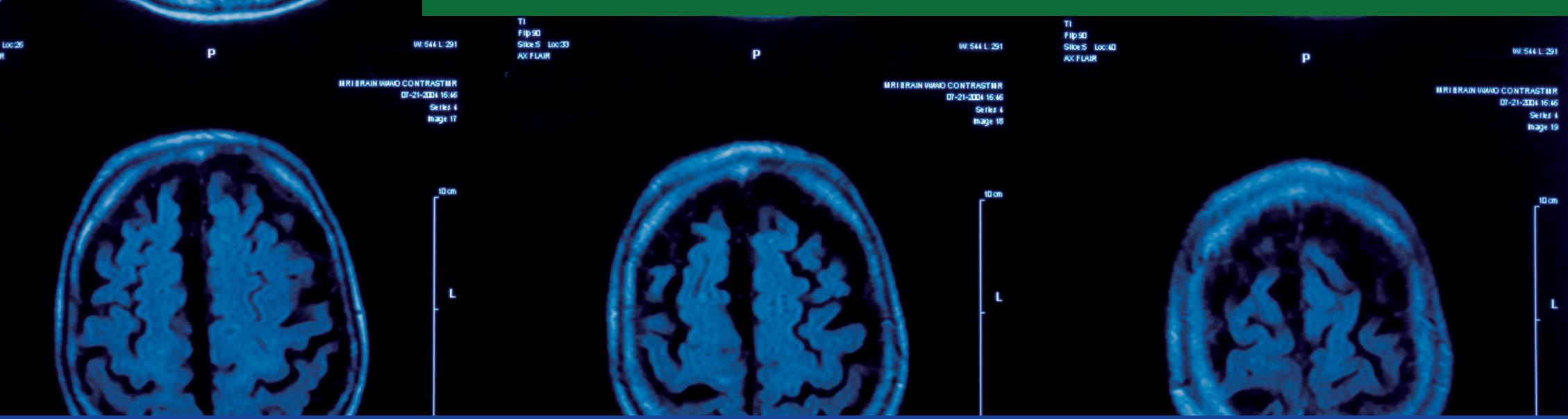
**Medical—Cancer therapy** 

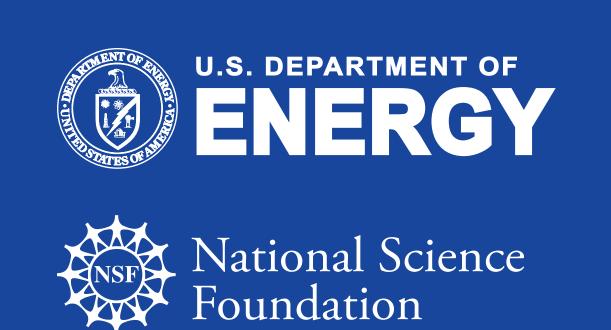
Materials Science—structure of materials

Biology—resolve fine details of biological systems

Nuclear Physics Reseach—heavy ion, dense matter

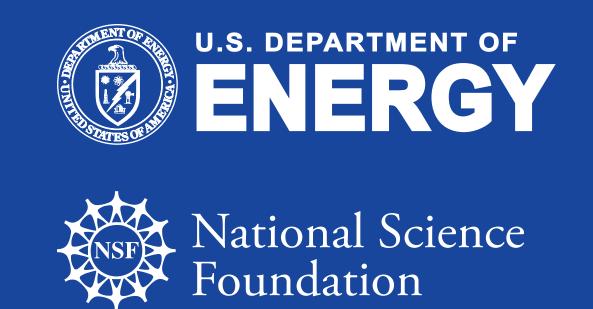
Particle Physics Research—Higgs, new particles, dark matter



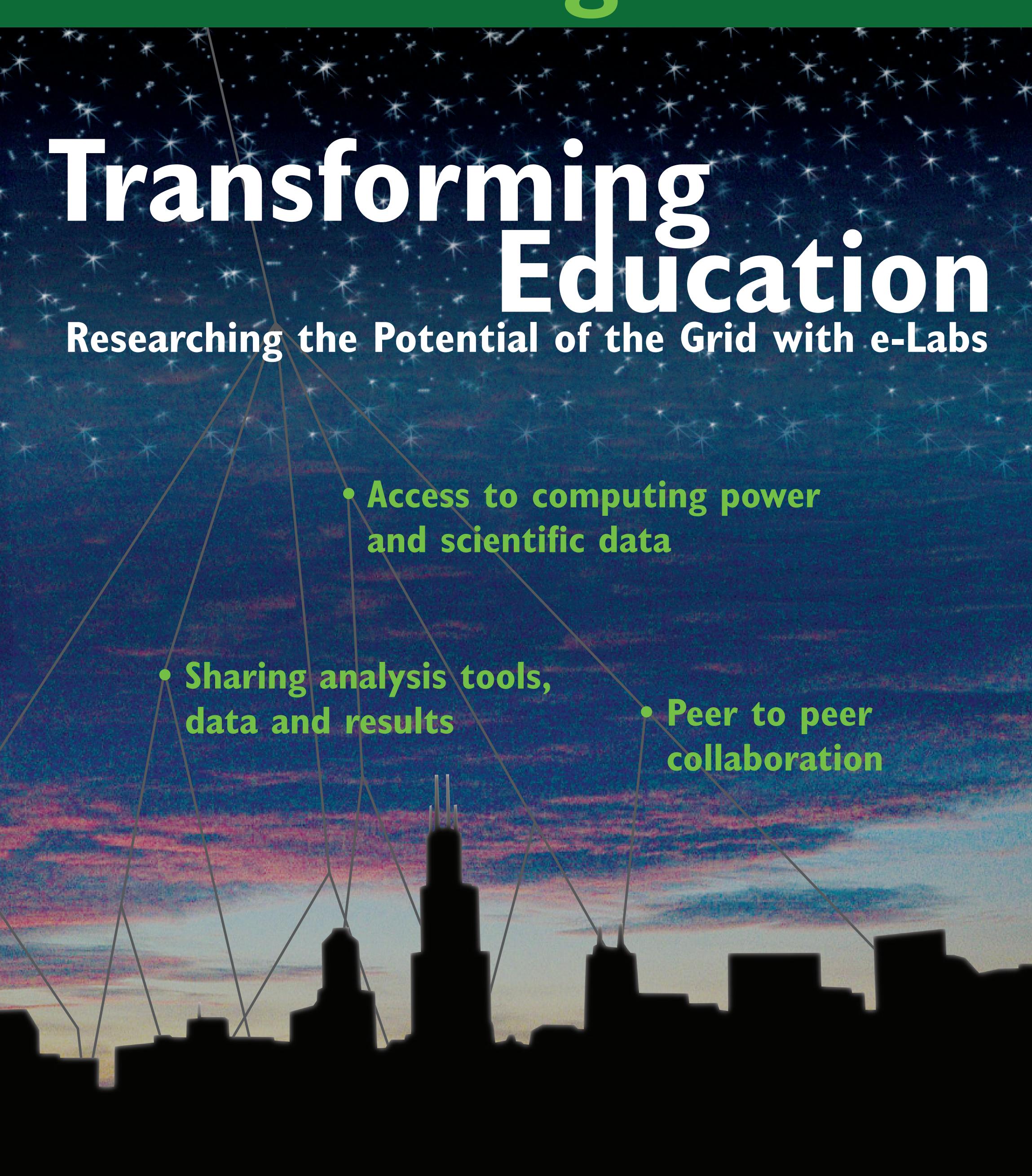


# COMPUTATIONAL PHYSICS FOR ACCELERATORS Accelerating Science





#### QUARKNET

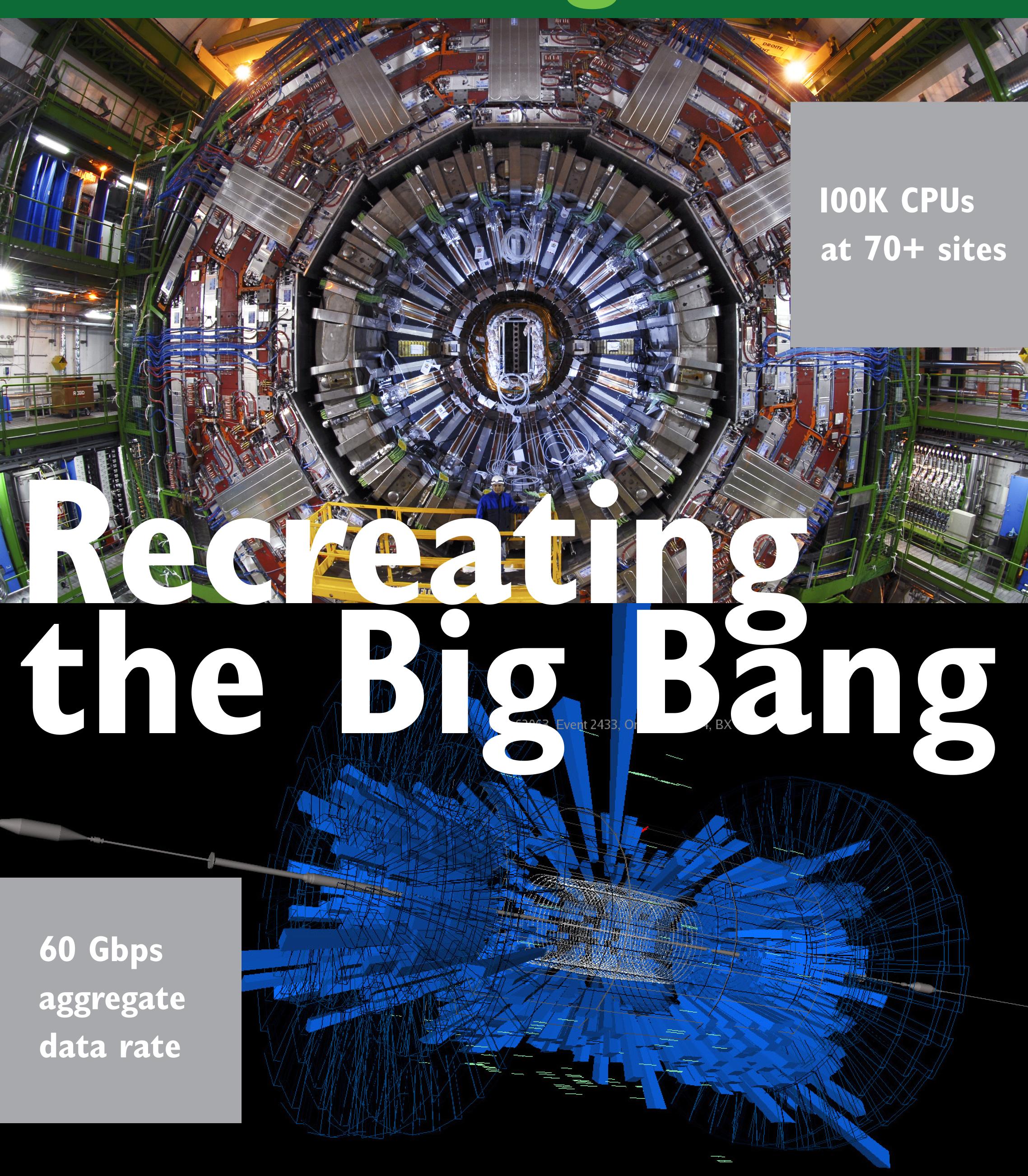








# COMPUACT MUON SOLENOID (CMS) Accelerating Science









# RUNNING EXPERIMENTS DEPARTMENT (REX) Accelerating Science

Providing support to to maximize physics output.

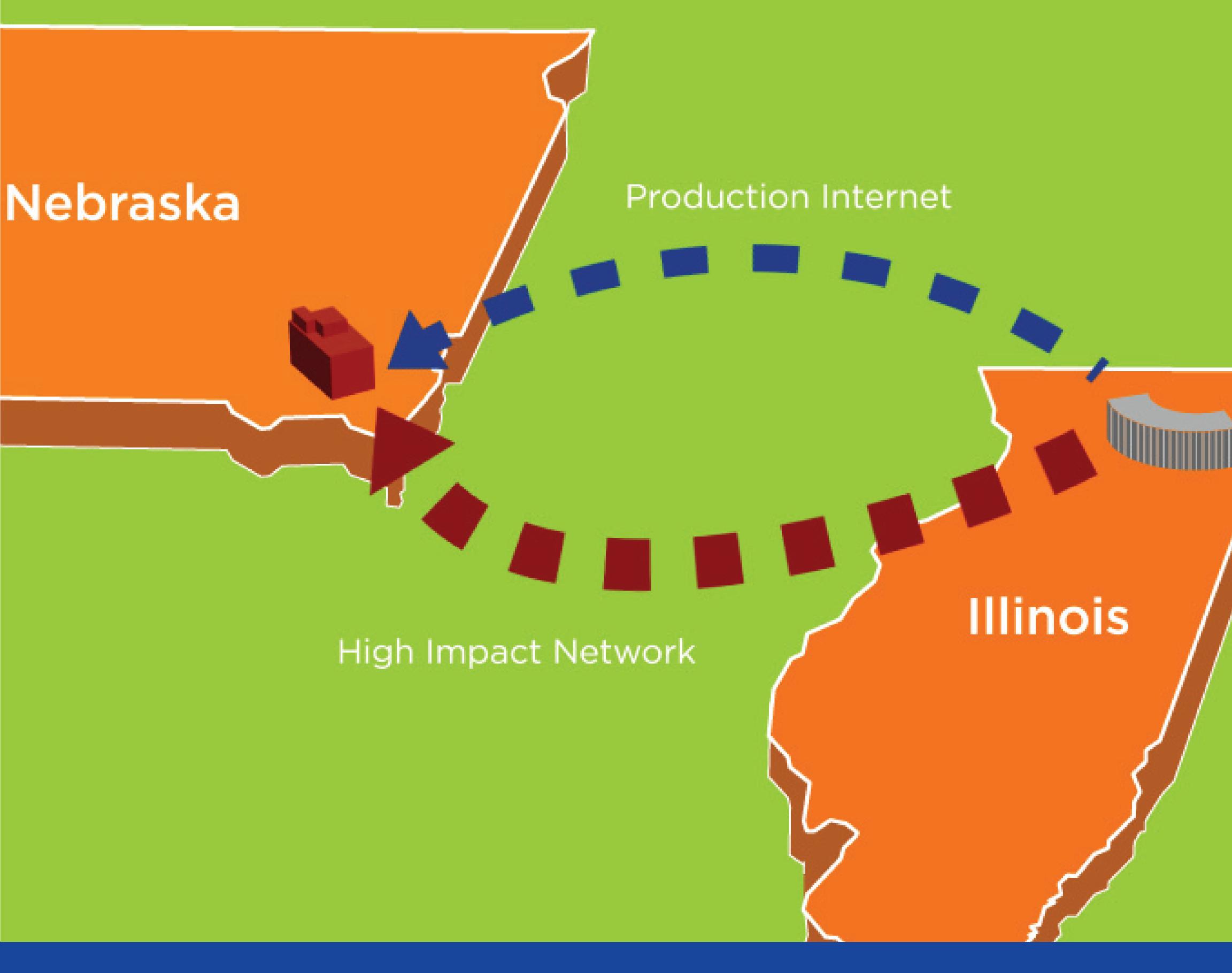


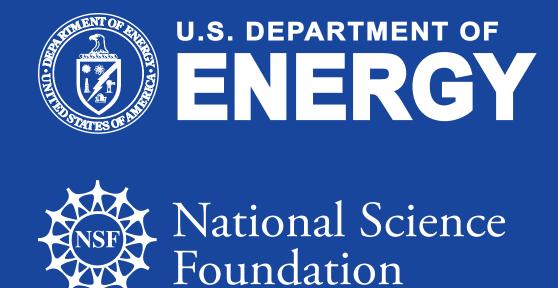


#### NETWORKING

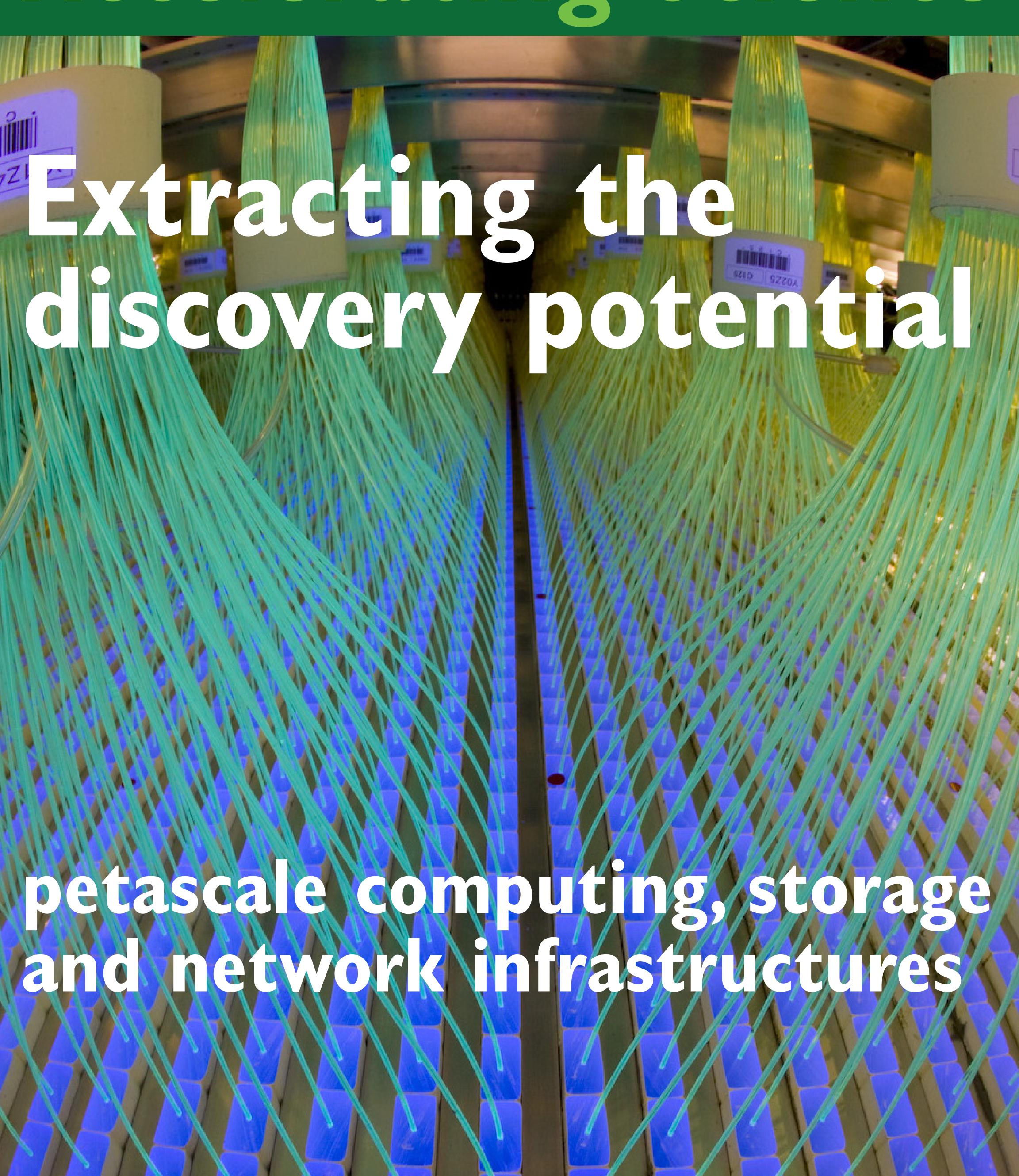
### Accelerating Science

# High impact science traffic done dynamically.





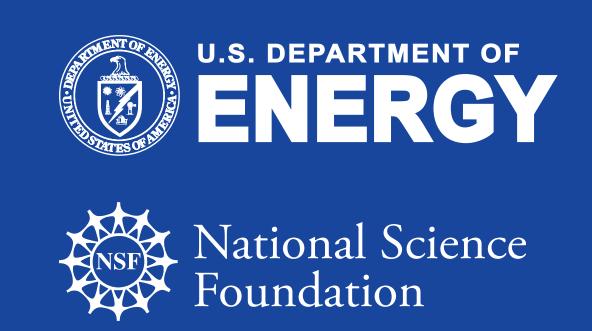
#### FERMIGRID GROUP







## SECURITY Accelerating Science



OPEN SCIENCE GRID (OSG)







